

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A compressible reactor for treating and disposing of a toxic chemical, said compressible reactor comprising:

a single use vessel for holding a frangible container, containing the toxic chemical, in a fixed position and for holding a volume of treatment chemical, said single use vessel having an upper ~~compression~~ compressible section and a lower treatment portion containing the fixed frangible container;

a cover fastened to said single use vessel;

a compression support frame fixedly mounted with respect to said single use vessel;

a means for fixing the frangible container in the lower treatment portion;

a jack positioned on said cover, said jack being operative to extend between said cover and said compression support frame so that said ~~compression~~ compressible section of said vessel is compressed; and

an impact member fixed to said cover, wherein upon compression of said upper compressible section, said impact member approaches and breaks said fixed frangible container to release the toxic chemical into the lower treatment portion.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. APPLN. NO. 09/518,642

2. (original): The compressible reactor of claim 1, further including a septum formed within said cover.
3. (currently amended): The compressible reactor of claim 1, wherein said ~~bottle~~ frangible container is a glass ampoule.
4. (currently amended): The compressible reactor of claim 1, wherein said ~~bottle~~ frangible container contains a chemical weapon material.
5. (original): The compressible reactor of claim 1, further including a cradle positioned within said treatment portion, for holding said frangible container.
6. (currently amended): The compressible reactor of claim 5, wherein said cradle contains penetrations to facilitate mixing of said toxic chemical and said treatment ~~chemicals~~ chemical.
7. (original): The compressible reactor of claim 1, wherein said cover includes a cover gasket.
8. (withdrawn): A reactor vessel for treating and disposing of a toxic chemical, said reactor vessel comprising:
 - a hand held treatment vessel for holding a volume of treatment chemical and a frangible container of a toxic chemical, said vessel having a base;
 - a cover removably coupled to an end of said hand held treatment vessel; and

at least one impact weight movably positioned within said hand held treatment vessel,
wherein upon agitation of said hand held treatment vessel, said impact weight is operative to
break said frangible container.

9. (withdrawn): The reactor vessel of claim 8, further including a penetration pin fixed to said
base on an inside of said hand held treatment vessel to aid in the breaking of said frangible
container.

10. (withdrawn): The reactor vessel of claim 8, further including a septum formed in said cover
for access to said hand held treatment vessel.

11. (currently amended): A method for treating a toxic chemical using a single use vessel
having ~~a compression~~ an upper compressible section, said method comprising the steps of
placing a frangible container containing the toxic chemical in a lower treatment portion
of said single use vessel so that said frangible container is internally aligned with an impact
member;

inserting a treatment chemical into said single use vessel;

scaling said single use ~~treatment-vessel~~

operating a jack so that a force is exerted upon said compressible section such that said
compressible section is compressed and by means of the compression said impact member

approaches and breaks said frangible container so that said treatment chemical is mixed with said toxic chemical; and

shaking said single use vessel to facilitate mixing between said treatment chemical and said toxic chemical.

12. (currently amended): The method as claimed in claim 11, further comprising the step of:
sampling said treatment chemical mixed with said toxic chemical through a septum.

13. (withdrawn): A method for treating a toxic chemical using a hand held treatment vessel, said method comprising the steps of:

placing a frangible container of a toxic chemical in said hand held treatment vessel;

inserting a treatment chemical into said hand held treatment vessel;

placing a weight into said hand held treatment vessel

sealing said hand held treatment vessel;

striking an end of said hand held treatment vessel so that said weight breaks said frangible container; and

shaking said hand held treatment vessel to facilitate mixing between said treatment chemical and said toxic chemical.

14. (withdrawn): The method as claimed in claim 13, further comprising the step of:

sampling said treatment chemical mixed with said toxic chemical through a septum

15. (currently amended): A system for treating and disposing of a toxic chemical said system comprising:

a single use vessel holding a frangible container which contains said toxic chemical and said vessel also holding a volume of treatment chemical, said single use vessel having a compressible section and a treatment portion;

a cover fastened to said single use vessel;

a compression support frame fixedly mounted with respect to said single use vessel;

a jack positioned on said cover, said jack being operative to extend between said cover and said compression support frame so that said compressible section of said vessel is compressed; and

an impact member fixed to said cover, wherein upon compression of said ~~compression~~ compressible section, said impact member breaks said frangible container and releases said toxic chemical to react with said treatment chemical.

16. (withdrawn): A reactor system for treating and disposing of a toxic chemical said reactor system comprising:

a hand held treatment vessel holding a volume of treatment chemical and a frangible container containing said toxic chemical, said vessel having a base;

a cover removably coupled to an end of said hand held treatment vessel; and

at least one impact weight movably positioned within said hand held treatment vessel, wherein upon agitation of said hand held treatment vessel, said impact weight is operative to break said frangible container and release said toxic chemical to react with said treatment chemical.

17. (currently amended): A compressible reactor for treating and disposing of a toxic chemical, said compressible reactor comprising:

a single use vessel for holding a frangible container ~~and containing a toxic chemical and~~
for holding a volume of treatment chemical, said single use vessel having ~~a compression an~~
upper compressible section and a lower treatment portion;

a cover fastened to said single use vessel;

a compression support frame fixedly mounted with respect to said single use vessel;

a jack ~~positioned~~ positioned on said cover, said jack being operative to extend between said cover and said compression support frame so that said ~~compression~~ compressible section of said vessel is compressed; and

an impact member fixed to said cover, wherein upon compression of said upper compressible section, said impact member approaches and breaks said frangible container, ~~said frangible container containing to release the~~ toxic chemical.

18. (currently amended): A method for treating a toxic chemical using a single use vessel having ~~a compression an~~ upper compressible section, said method comprising the steps of:

placing a frangible container containing a toxic chemical in said single use vessel so that said frangible container is internally aligned with an impact member;

inserting a treatment chemical into said single use vessel;

sealing said single use ~~treatment~~-vessel;

operating a jack so that a force is exerted upon said compressible section such that said compressible section is compressed and said impact member by means of the compression approaches and breaks said frangible container so that said treatment chemical is mixed with said toxic chemical; and

shaking said single use vessel to facilitate mixing between said treatment chemical and said toxic chemical, wherein said method is practiced using the compressible reactor of claim 1.